

Vol. 17, No. 3

REPORT

Week Ending January 20, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

## EPIDEMIOLOGIC NOTES AND REPORTS OUTBREAK OF MENINGOCOCCAL INFECTION Mississippi

From January 14 through 19, 1968, four documented cases and four suspect cases of meningococcal infection with three deaths occurred among 56 elderly female patients, residing on the second floor of a Mississippi state hospital for the mentally ill. The outbreak began on January 14 when two patients suddenly died, and a third patient was admitted to the institution's infirmary with purulent meningitis (Figure 1). Clinical and epidemiologic investigation revealed that the first fatal case had a temperature of 107°F. before death. Autopsy on the second fatal case revealed bilateral adrenal hemorrhage. Gram

#### CONTENTS

Epidemiologic Notes and Reports Outbreak of Meningococcal Infection - Mississippi 23 Epidemiologic Investigation of Influenza in Michigan 23	
Surveillance Summary Measles - United States, 1967	2
International Notes Influenza — 1967	2

stains of cerebrospinal fluid from the third and fifth patients showed Gram-negative intracellular diplococci which was confirmed as meningococci by fluorescent antibody directed against Group B. This fifth patient died in shock; she had classical skin lesions of meningococcemia. Fluorescent antibody studies on autopsy material were (Continued on page 22)

### TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

DISEASE JA  Aseptic meningitis Brucellosis Diphtheria Encephalitis princer	24 - 2 17	JANUARY 21, 1967 29 1	MEDIAN 1963 - 1967 32 3 2	1968 77 2	1967 77 7	MEDIAN 1963 - 1967 87
Aseptic meningitis	2	29 1 1	3	2	and the second second	
Drucellogia	4 4 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_	7	10
Distriction of the state of the	4 4 5	A.C. in the spins	2			10
Diphtheria	17			3	3	11
Encephalitis, primary:	17					
THUDON A DOWN A		20	( ) = HELLED 17	52	59	Utility Transmi
	9	7	Alle	28	20	contractor.
Hepatitis serum	76	29		177	108	
Hepatitis, post-infectious Hepatitis, serum Malaria	814	749	778	2,167	2,019	2,252
Malaria	36	27	5	112	67	DE TRUTER
Measles (rubeola)		- 1/2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		-		14.010
Meningococcal infections, total	555	1,473	5,946	1,274	4,039	14,819
	85	73	63	192	191	191
Civilian Military	82	68		188	177	****
Military Mumps Poliomyaliti	3	5	100 001 1-02	4	14	M CHYNDAN
Poliomyelia	5,429			12,443		
	72-107-10	Bill from the land	-	C014 321	2 1 Hall	1
Paralytic. Rubella (German manales)	_			-		_
Rubella (German measles) Streptococcal sore thought to contact favor	603	654		1,351	1,406	
Streptococcal sore throat & scarlet fever	11,019	11,927	9,610	30,840	30,501	26,356
Tetanus	1	3	2	1	6	10
Tularemia Typhoid fever	1	4	4	2	9	15
Typhoid fever Typhus, tick-borne (Rky, Mt. snotted fever)	9	5	5	16	9	12
Typhus, tick-borne (Rky. Mt. spotted fever)		147		2	3	12
Rabies in animals	65	71	61	198	205	203

#### TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

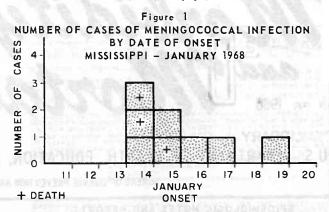
Anti	Cum.		Cum.	
Anthrax: Botulism: Leptospirosis: Plague: Fsittacosis	- - 2	Rabies in man: Rubella, Congenital Syndrome: Trichinosis: Pa1 Typhus, murine: Polio, Unsp	2	

### OUTBREAK OF MENINGIOCOCCAL INFECTION - (Continued from front page)

strongly positive for Neisseria meningitidis. The seventh and eighth patients had classical skin lesions, and had positive nasopharyngeal and blood cultures for sulfonamideresistant, Group B meningococci. Cases 4 and 6 were diagnosed on the bases of high fever, leukocytosis, and petechiae.

Epidemiologic investigation revealed that 34 percent of the 56 patients on the second floor had had documented temperature elevations and symptoms attributed to viral upper respiratory disease between January 3 and January 17. On January 17, a Group B meningococcal carrier rate of 16 percent was found among the 48 patients, then residing on the ward. All but one isolate (5 of 6) were sulfonamide-resistant. Preliminary results of nasopharngeal swab surveys, of comparable male and female ward populations (174 males and 114 females) conducted at the institution on January 17 and 19, showed type B carrier rates of 6 percent or less. All these isolates were sulfonamide sensitive.

Since evidence implicated a type B sulfonamideresistant meningococcal strain as the cause of the epidemic and as prevalent only in one building, strict quarantine measures were imposed, and antibiotic prophylaxis



with penicillin was initiated. Epidemiologic and laboratory investigations are continuing.

(Reported by William Jaquith, M.D., James Head, M.D., and Manning Hudson, M.D., Mississippi State Hospital, Whitfield, Mississippi; A. L. Gray, M.D., M.P.H., Executive Officer, and Durward L. Blakey, M.D., M.P.II., Director, Preventable Disease Control, Mississippi State Board of Health; and Epidemiological Services Laboratory Section, NCDC, and a team of EIS Officers.)

#### SURVEILLANCE SUMMARY MEASLES - United States, 1967

For the first time since reporting of measles began on a national basis (1912), the reported cases in 1967 were fewer than 100 per 100,000 population. In 1967, the case rate per 100,000 population was 37.4 as compared to 104.2 in 1966.

The frequency distribution of the states according to the reported measles cases per 100,000 population for calendar years 1966 and 1967 is shown in Table 1. The primary difference between 1966 and 1967 occurs in the high and low levels; there was essentially no change in the number of states falling into the two middle categories. However, there was a considerable change by individual states to a different rate category in the 2 years.

In 1967, 29 states, the District of Columbia, and New York City showed marked decreases in reported cases of

Table 1 Frequency Distribution of States\* According to Reported Measles Cases per 100,000 Population

Cases per	Number of States				
100,000 population	1967	1966			
Less than 25.0	25	11			
25.0 to 49.9	10	9			
50.0 to 99.9	13	14			
100.0 or greater	4	18			

<sup>\*</sup>Includes the District of Columbia and New York City.

measles per 100,000 population from the 1966 reports. This is reflected by the maps in Figures 2 and 3; 10 states showed a decrease in rates, but the decrease was not enough to show improvement on the maps from 1966 to 1967. (Continued on page 28)

Figure 3

Figure 2 REPORTED MEASLES CASES PER 100,000 POPULATION UNITED STATES, 1967 1000 OR GREATER



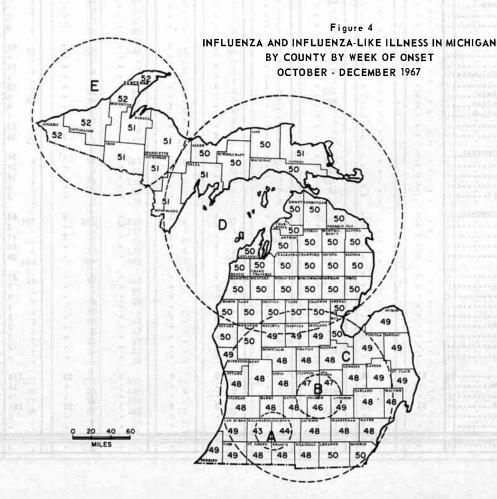
# EPIDEMIOLOGIC NOTES AND REPORTS EPIDEMIOLOGIC INVESTIGATION OF INFLUENZA IN MICHIGAN

During the current U.S. influenza epidemic, every county in Michigan experienced an outbreak of influenza (Figure 1), although the severity of illness and the proportion of the populace varied by county. Serologic confirmation of the outbreaks as influenza A2 was made by complement fixation tests on specimens from eight counties, Kalamazoo, Ingham, Calhoun, Washtenaw, Wayne, Kent, Marquette, and Saginaw. Specimens from patients in other counties are presently undergoing laboratory investigation. Although the major Michigan epidemic has subsided, sporadic cases continue to be reported.

Recently, a telephone survey to Michigan county health departments obtained the dates of onset of influenza in each county. The progress of influenza through Michigan was traced by analysis of these data. According to the survey results and to the dates of outbreaks submitted to NCDC, the first outbreak occurred at Western Michigan University in Kalamazoo in the 43rd week, October 21, of 1967 (MMWR, Vol. 16, No. 48). In the 44th week, influenza occurred in Battle Creek, Calhoun County, and in the 46th week, influenza occurred in Lansing. Following the Thanksgiving holiday, influenza spread rapidly in all

directions, especially, to the northern and eastern highly populated counties of Saginaw, Genesee, Wayne, Oakland, and Macomb. During the 50th week, December 10-16, the northern half of the lower peninsula and upper peninsula experienced influenza outbreaks. In the 51st and 52nd weeks, outbreaks were reported from the western upper peninsula.

In these county outbreaks, influenza usually was first noted in the high schools. During the first week, a few cases of febrile respiratory illness occurred, and by the second week, school absenteeism from influenza increased to 25 or 30 percent. By the third week, influenza had spread to the elementary school children and adults in the county. By the end of the fourth week, only sporadic cases occurred, and the county epidemic was over. In the city epidemics, school absenteeism was also 25 to 30 percent; however, Traverse City reported 50 percent absenteeism, and Hisperia, Newaygo County, reported 70 percent. (Reported by George H. Agate, M.D., M.S.P.H., Chief Division of Epidemiology, and Maurice Becker, Ph.D., Chief, Virology Laboratory, Michigan Department of Public Health; and an EIS Officer.)



# Morbidity and Mortality Weekly Report

# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

# FOR WEEKS ENDED

JANUARY 20, 1968 AND JANUARY 21, 1967 (3rd WEEK)

effections and action					E	NCEPHALI	TIS	HEPATITIS			
AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	incl	mary uding cases	Post- Infectious	Serum	Infec	MALARIA	
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES	24	29		2	17	20	9	76	814	749	36
NEW ENGLAND	-		100 to 200	Trivial Company	2	1	The second second	4	44	33	1
Maine	AL LANCE OF	A 1 155 T	earners and	19.4(300)	102/1	SHAT I	ALC: NO SERVICE		State of the last	3	
New Hampshire	- 10		- Table	all-quee	1	- 00	1246 - JOSE	110- 11	tall at	1	1011
Vermont	ather be	ووكنانا تروا	CHECK PROPERTY	Aller and	7 10	October 1	THE RESERVE		The state of the	and the second	
Massachusetts Rhode Island	No. of	Laborate Section	442 mg/s	a factor	1900	21	Or of these	1	13	9	
Connecticut		_		-	1	-	-	3	23	13	1
Compagning and including	44										
MIDDLE ATLANTIC	2	4	3 MUNIC - 1229	B165-141	4	3	2	32	122	118	6
New York City New York, Up-State.	2000	1 2	THE CLA	om pôžiji na	White	publication of	2	26	51 24	19 47	1
New Jersey	e India	Proyect Person	teles lelkel	direction.	1-551	dheirea	THE MET AND THE	4	14	21	1
Pennsylvania	1	150. 1.1	40.00	more-sealth	4	i i	- draw madd	2	33	31	5
EAST NORTH CENTRAL	2	1	HILL TO SERVICE		3	2	**************************************	1	153	115	1
OhioIndiana	in intellige	din Jeni	and the second	sterior	1	2	AMERICAN N	19-1	58 3	22 5	
Illinois	night Light	400-10	STEEL ST	1 1-19	15/15/1	CM AND	a to the teachers	ayon day	34	20	1197
Michigan	1	1	CONTRACT DAY	Deposit .	2	mfortset)	100 m 100 000 m	1 48	42	55	1
Wisconsin	1	s-to-a	and the state of	ADMINISTRA	-	territoria.	and at T	Land of	16	13	100
WEST NORTH CENTRAL	1 1				770	Here I de la		2	56	25	NA.
Minnesota	1	and party	marks, for	MATERIA S		la la	2	_	19	35 13	4
Iowa.	التحقيها	1780 170	and double	Agla Wa	200	diam'r.	2	711.700.0	9	4	mili?
Missouri	-	ATTOTE IN	Value lines	addition to	ar or officers	1	Linous error	2	16	13	mit -
North Dakota	-	-	100	0.00		-	-	- '	4	-	5 <del>5</del> 5
South Dakota Nebraska		1	-	- 1	-	7712 - 1	-	-	2	-	1.5
Kansas	c silver.		Labour ente					eud-y	6	- 5	4
75000050					and the same		100000000000000000000000000000000000000		Ů	,	4
SOUTH ATLANTIC	6	4	an susan	2	3	2	distribution of the second	2	69	61	12
Delaware	75.00	70.119.01	THE YEAR PLAN	3 76 5	-		Mary feet for	1101 3/25	EV. ET. /	2	-
Maryland Dist. of Columbia	1	HE THE SE	E-gamos	3G	- 19	1	100	77.7	14	18	3
Virginia	_	_	_	1	1	AV PUP	March 1		1 18	4	1
West Virginia	3	-30 H-		STITE WALL	-	-	100	-	4	11	-
North Carolina	2	2	100		5377	1	AND THE	-	4	6	3
South Carolina	-	mi irena	e en permite	10-6	100	117-10	12-N T 1	2 13	1	2	1
GeorgiaFlorida.	and The	1		1	2	1	1 1 1	2	13 14	6 14	4
professional feet and the second			TO CONTRACT	98.75	1756	11	-	2	14	14	
EAST SOUTH CENTRAL	1	Z	- M - 10	- 1			*	-	58	69	-
Kentucky		- 7				-	S. Company	- 2	29	30	-
Tennessee	1		3		"New"	-1-115	3=	-	18	21	mile.
Mississippi		military.	BRIDE BEAR	CLUMP (A)	4200		Children illino	STATE OF	4 7	11	College.
trades as a difference.		-81 U.S. U.S.	A TOTAL	9 53	3.0		grouper trains		thus new	100	4.2
WEST SOUTH CENTRAL	1	1	62 1	Second 7	1	2		2	67	71	1
ArkansasLouisiana	LA AL	and the	Chickman 3	79 6	L.	147	1	-	2	7	- (+)
Oklahoma		7 w	06 02	100	- 1	1	1 -	2	11 16	9	1
Texas	1	. 1 1		- All (8)	l	1	1 - 1	lucariti	38	51	_
MOUNTA TN		Well St	103 -01	perluige lits	St. Com		CONTRACTOR OF THE		HOUSE WAY I	other Con	
MOUNTAIN	TEN IT	1	Conducted	34.0	1	7	1		27	72	1
MontanaIdaho	-	1.0	98-108	28 KB K	16 \ (100.0)		1,1241,111	STATE	7	4	
Wyoming.	all ares		127-54-4	TIA T			A STREET	MILITAN .	9	5	
Colorado		12.5	10 mm	1-95-00	1				1	3	1
New Mexico	- 7	7	DIFE			1.72			2	43	
Acizona	اللسا	1		To Thomas	907	1 14- 1	-	- 16	5	9	
Utah Nevada	30/3	100	111		ZAS.	5 - 1	Barrier		2	8	000
		71		P* (C**)	TV						4
PACIFIC	11	18	100	13-av	3	9	4	33	218	175	10
Washington		( - N-11)	77 8 7		WILL V		1		16	17	-
Oregon	11	7.5			-	9	-	1	16	36	1
Alaska	- 11	15	BURN	125	3	-	3	32	184 2	121	9
Hawaii		3			13A E.		. 100			1	-

# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JANUARY 20, 1968 AND JANUARY 21, 1967 (3rd WEEK) - CONTINUED

THE PERSON	MEA	SLES (Rube	ola)	MENINGO	COCCAL INF	ECTIONS,	MUMPS	Р	OLIOMYELI:	ris	RUBELL
AREA	THE RES	Cumula	tive		Cumul	ative		Total	Para	lytic	1.1.1.1994
9990	1968	1968	1967	1968	1968	1967	1968	1968 1968 1968	1968	Cum. 1968	1968
UNITED STATES	555	1,274	4,039	85	192	191	5,429	- 1- 1			603
Control of the Principle of the Principl			50		A THE	A14,40			1		
Mains	16	37	34	2	7	6	556	12 600	1.	1	44
Maine New Hampshire	1	2	4	2 U 5		1	20 7	- 11	-	1001000	2
Vermont.			4	1			57	(5) The	3.5	H GOOD	
Massachusette	7	19	21	1	3	3	293	-	- 289	271	14
Knode Island	-	1	2			-	55	.1 - 6	- 30	1777	
Connecticut	8	16	2	1	4	2	124	- iii	T.	-11-55	28
IIDDLE ATLANTIC	69	171	191	11	28	29	289		The same of the	V25	60
New York City	12	24	24	5	6	6	84	1 2 10	2	7 5 100	30
"CW IOTK IIn-State	31	106	50		1	9	04		12	7 71 179	20
New Jersey	19	33	86	2	8	11 .	205			-	10
Pennsylvania	7	8	31	4	13	3	-	-		- 1	-
		242			1 (18.1)				1 54		1
CAST NORTH CENTRAL	183 29	362	440 35	10 4	27 8	15 7	2,051 293	(30)		LABORE	117 12
riid lana	52 52	65	79	1	3	1	125	2.00		10.000	9
1111nois	58	132	39	1	4	3	237			100000	17
"ILCUISAD	8	20	117	3	11	3	610	11 - 76	1.0	1.1.1.25	46
Wisconsin	36	70	170	1	1	1	786	- 6	- 1	1.	33
	6.5			11	= 1, 3	10	770				
Minnesota	25	55	140 5	5	15 1	10 1	773 26		-	-LOCKE	52 5
Tuwa.	9	21	29	1	1	2	617	1 1		1	27
"LSSOuri		1	6	2	4	3	17		200		-
more in Hakota	5	14	49	1	i	-	83	- 5		1 - 1	11
outh Dakota	1	2	14		2	1			-		
"Coraska	2	3	37	-	1	2	10		-	-	-
Kansas	- 8	14	NN	1	5	1	20	- EA			9
OUTH ATLANTIC	25	106	1.06	27	1.6	22	392		11.11		20
	35	106	406	27	46	33	9	1 2 20			29
	4	8	2	1	1	3	39	1 2 3	2.5	+	5
oracle Of Columbia			4	-	1	-			-	5.4	
- 41 Zinia	6	16	66	4	4	3	101	-			14
	10	34	87		2	7	160	-	5 lb.	7.00	3
		2	75	4	8	7	f (4.75 (p.)	- 1	- 31	1	
South Carolina Georgia	- 1	2	1	2	8	1	3	11 - 29	- 4.	-	2
Florida	15	44	8 163	4 12	5 17	4 8	80		1. 343		- (m) (m)
	15	44	103	12	17	0	80	m	11 3 3	A R	
EAST SOUTH CENTRAL	8	27	465	1	6	15	272	- 15		barren.	23
	1	4	65	- C (*)	2	4	99	1 - 10	-71		-
	2	15	195	1	4	7	147			1.5	12
auama	3	5	66	- 1	10	2	14	50	1 . 4	1	11
Mississippi	2	3	139		-0   * 0	2	12	1 2 00	* M	-	
Arkansas	103	241	1,210	18	37	30	186				16
Arkansas		- 11	137		1	F) F (2)	1.0	1 - 2			-
		1	13	7	9	12	2	-	- 1	9	1
okiahomo		34	179	1	7		3	31	- 1		
	103	206	881	10	20	18	181	2 100	2.5	1.7	15
OUNTAIN	15	50	240		2		127		4 4 1		00
Montana.	1	52 1	340 88		1	6	20	1.1	N. S. M.	4-2-4	89
			28			1	20				58
	2	13		-		-	16	1,000	1		-
	5	15	42		1 4 6	1				1112	8
		6	47			3	49	-			5
	7	11	55	+	1		40	. 00		-	13
Utah Nevada			10	M -	(5) T =		2	1,000	1.0		1
		-	70			1			- T		- black
ACIFIC	101	223	813	11	24	47	783			-	173
Washington	34	66	429	1	2	1	258	2 10	N 581		73
	27	58	150		ī	3	19				14
California	39	87	189	10	21	42	486				81
Alaska.	- 12	-	39	-	3 1	1	9		-	-	5
	1	12	6	-81 4-	34 JF 5	-	11		- 1	5 7	
uerto Rico	9	9	113	10.7	_	_	25			+	+

# Morbidity and Mortality Weekly Report

# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JANUARY 20, 1968 AND JANUARY 21, 1967 (3rd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	ANUS	TUL	REMIA	ТУН	HOID	TICK	S FEVER -BORNE . Spotted)		IES IN IMALS
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES	11,019	1	1	1	2	9	16	100	2	65	198
NEW ENGLAND	1,400	S. Lare	1 11 1			1	1	100	36.55	73	2
Maine	27	3 E 04	, /LT L	_ [1] -	-		1	-	1		2
New Hampshire	43	J. D.S.	, ILI 114		-		_	_			
Vermont		11 1 10		V - 2		-	- 1	1 - 1		100000	1000
Massachusetts	239	1 040		2 L				5 511	- 1		L HAVE
Rhode Island	85	1 1 18	. 11 1		9 -						
Connecticut	1,006	1 100	-	7 19 2		1	1				-
MIDDLE ATLANTIC	198	1 1 190			-	4	5			1	1 1
New York City	13	64 E All				4	4	0	72 - 14	0001921011	-
New York, Up-State.	165	4 1		-	-	-	1	-		1	1
New Jersey	NN	2 000		-	-	-	-		- 6	-	
Pennsylvania	20		. 1	1-1 "		-		-	- 1		
EAST NORTH CENTRAL	1,093	1	1	1	1	1	2	100		5	18
Ohio	179	1 1 22				1	2	-	1 52 - 31	1	8
Indiana	232	7 500				-		E	- 1	2	6
Illinois	140	1	1	-			0.00	B" = 1		1	1
Michigan	292	21 P 132	-	1	1	-	407		57 - 18 FE	1	2
Wisconsin	250	J ( ***)		•	-	-		1	- 1	Dist	1
WEST NORTH CENTRAL	491	533	- 11	4 0- 6	241	1	2		E - 12 H	12	26
Minnesota	56	1 110		-		-		S 5		1	5
Iowa	155	4 3 550		-	-		7 - 1	Z #71		5	7
Missouri	7	0.0				1	2			4	7
North Dakota	184	-14-20						75	1 - 1	1	4
South Dakota	44	E.61	1 0		106.5			-	1 3 3 5		
Nebraska Kansas	42	0.00					2 12	1 - 2		1	1 2
The state of the second	1 106	- CA	- 177				10. ×	ar 9 1	27 (8)	Simi	0.12
SOUTH ATLANTIC	1,106						1	7013	2	7	24
Delaware	152	10.000	5 100	3 3 1 3			1		3.55	7	
Maryland Dist. of Columbia	132		- 5	1			1	2	1000	C Legal I	neo i i
Virginia	448		N. LL.				M	0. 2.1	2	2	10
West Virginia	203	1 2 14%	1.5			25	1	E .	-96.53	2	4
North Carolina	37	der 5	1 1	1.0			E La I	2			
South Carolina	13	E 5 5			3 - 133		2.	2.4	Y a N		O HIDS
Georgia	15	1 - 1.	1	S		447	V	-	1.4	1	3
Florida	217	- 20	W 12 1 1	-	-	-	47 -	2	-	2	7
EAST SOUTH CENTRAL	1,427	T 133	1 1		-	1	3	(L	1 5 6	23	81
Kentucky	79	4 40				5 24 11	10.514	-	5.345.00	9	25
Tennessee	1,196	A 101	-	-	-	1	3		- 1	12	53
Alabama	102	F 1	-	1		-			10.00	2	3
Mississippi	50	1 10		-	-		- 1	-			passage.
JEST SOUTH CENTRAL	1,227	300	3 (4.5)		70	W3.143	12.21	(41 E	201	13	37
Arkansas	7	- 1					I	-	• 1	2	3
Louisiana	1				10-1		200			1	3
Oklahoma	132									4	11
Texas	1,087					*				6	20
MOUNTAIN	2,012	114 131		1.2	1	1.1	96	- 4	4.74	1	2
Montana	59	- On				100		-		100	10001
Idaho	146						-				-
Wyoming.	162				-				- 10		-
Colorado	1,134				- 57	11			- 1		-
New Mexico	294								-		34-311
Arizona	130	3.5					7			1	2
Utah Nevada	87				1		0.15		- 1		
	2.005	1 1				cr .	Table 1	H 18	me sal		10
PACIFIC	2,065	1 2	100	100		1	2	14		3	7
Washington	670 179	1.0	= 7/ 7	7-1K				8			200
Oregon California	1,158	1 104				1	2	ga - T			7
Alaska	34		1111		75.11	- 1	2			3	7
Hawaii	24	ALC: IN	فيللس		Sec. 14	911	Sec. of				وأولارها
						l					100000000000000000000000000000000000000

Week No.

## TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JANUARY 20, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Ca	uses	Pneumonia Under			A11 Ca	uses	Pneumonia	Under
Area	All Ages	65 years and over	and Influenza All Ages	1 year All Causes	Area	All Ages	65 years and over	and Influenza All Ages	l year All Causes
EW ENGLAND:	1,068	680	102	36	SOUTH ATLANTIC:	1,469	842	103	63
Boston, Mass	374	219	34	17	Atlanta, Ga	172	85	9	9
Bridgeport, Conn	47	30	11	2	Baltimore, Md	340	198	19	11
Cambridge, Mass	45	30	History.	1	Charlotte, N. C	56	28	11	2
Fall River, Mass	59	42	4	DESCRIPTION OF THE PARTY OF THE	Jacksonville, Fla	90	50	4	5
Hartford, Conn	61	34	1	4	Miami, Fla	124	60	2	5
Lowell, Mass.	39 33	27	3		Norfolk, Va	63	33	5	6
New Bedford, Mass	34	21 25	2	1.53	Richmond, Va	88 59	59 41	10	5 2
New Haven, Conn	66	42	4	2	St. Petersburg, Fla	94	80	7	31
Providence, R. I	108	74	18	1	Tampa, Fla	90	52	9	2
Somerville, Mass	12	8	2		Washington, D. C	255	138	22	15
Springfield, Mass	70	45	8	3	Wilmington, Del	38	18	5	1
Waterbury, Conn	31	21	Store 1:		Auto Salvara Salvar Salvar		mar all the	ell divisi	tis no
Worcester, Mass	89	62	11	6	EAST SOUTH CENTRAL:	898	547	92	22
				1	Birmingham, Ala	157	99	19	5
IDDLE ATLANTIC:	4,209	2,644	308	150	Chattanooga, Tenn	67	34	9	2
Albany, N. Y	63	33	6	1	Knoxville, Tenn	75	55	6	100
Allentown, Pa Buffalo, N. Y	34	16	1	1	Louisville, Ky	151	94	20	-
Camden, N. J	184	118	4 5	8	Memphis, Tenn Mobile, Ala	170 72	89	7 10	6
Elizabeth, N. J	43 48	26 32	5	1	Montgomery, Ala	53	27	9	6
Erie, Pa	46	30	5	1	Nashville, Tenn	153	107	12	2
Jersey City, N. J	119	78	12	2		133	10,	12	
Newark, N. J	114	54	15	25	WEST SOUTH CENTRAL:	1,656	975	208	74
New York City, N. Y	2,188	1,390	150	74	Austin, Tex	59	41	14	-
Paterson, N. J	54	33	8	1	Baton Rouge, La	56	31	10	3
Philadelphia, Pa	563	349	15	16	Corpus Christi, Tex	37	18	6	2
Pittsburgh, Pa	256	144	19	6	Dallas, Tex	278	168	45	12
Reading, Pa.	58	35	10	2	El Paso, Tex	47	27	5	3
Rochester, N. Y	146	101	26	6	Fort Worth, Tex	129	88	9	5
Schenectady, N. Y	31	20	2	The second	Houston, Tex Little Rock, Ark	255	113	12	18
Syracuse, N. Y	35 44	32	12	3	New Orleans, La	84	152	9	3
Trenton, N. J	80 65	59 42	1 4	1	Oklahoma City, Okla	252 123	80	26 16	7 4
Utica, N. Y	34	24	5	1 -	San Antonio, Tex	158	98	10	8
Yonkers, N. Y	36	28	3	2	Shreveport, La	75	50	21	3
Market St.					Tulsa, Okla	103	60	25	6
AST NORTH CENTRAL:	3,195	1,899	158	148	mire a. The equipmer		of any	palma'i	176.1
Akron, Ohio	71	45	-	2	MOUNTAIN:	532	321	54	31
Canton, Ohio	43	27	7	1	Albuquerque, N. Mex	53	32	13	2
Chicago, Ill.	997	575	55	42	Colorado Springs, Colo.	32	21	5	1
Cincinnati, Ohio	188	114	2	9	Denver, Colo	167	102	9	12
Cleveland, Ohio	242	124	5	10	Ogden, Utah	30	17	2	2
Dayten, Ohio	184	108	5	12	Phoenix, Ariz Pueblo, Colo	98	56	15	8
Detroit, Mich	100	57	8 9	2 22	Salt Lake City, Utah	29 66	20 36	2 3	3
Evansville, Ind	380	208	5	1	Tucson, Ariz	57	37	5	2
Flint, Mich.	52 39	39 17	3	1		3,	3,		1
Fort Wayne, Ind	47	36	5	2	PACIFIC:	1,830	1,146	55	63
Gary, Ind	46	21	6	4	Berkeley, Calif	22	15	120	0.3
Grand Rapids, Mich	50	37	7	i	Fresno, Calif	56	33	2	5
Indianapolis, Ind	180	111	4	8	Glendale, Calif	40	24	2	-
Madison, Wis	33	18	-	2	Honolulu, Hawaii	46	23	1:2	7
Milwaukee, Wis	162	103	8	19	Long Beach, Calif.	93	59	1	2
Peoria, Ill	42	28	3		Los Angeles, Calif	600	382	11	23
Rockford, Ill	49	40	5	1	Oakland, Calif	73	53	2	2
South Bend, Ind Toledo, Ohio	63	46	9	2	Pasadena, Calif Portland, Oreg	37	20	max 10 cm	1
Youngstown, Ohio	154	96	11	5 2	Sacramento, Calif	145 71	95	3 2	6
-Borowii, Oilto	73	49	1	1 4	San Diego, Calif	95	48 51	5	4
EST NORTH CENTRAL:	1,147	815	97	35	San Francisco, Calif	204	122	5	3
Des Moines, Iowa	73	50	2		San Jose, Calif	46	32	2	1
Duluth, Minn	14	11	HOTELS FAN	100	Seattle, Wash	204	123	16	4
Kansas City, Kans	57	32	6	4	Spokane, Wash	50	37	3	2
Kansas City, Mo	198	145	12	1	Tacoma, Wash	48	29	THE NAME OF	2
Lincoln, Nebr	46	40	13	1	the second property of president	1 SH29 A	172-500	GL pulpes	-101-1
Minneapolis, Minn	151	110	7	6	Total	16,004	9,869	1,177	622
Omaha, Nebr	107	74	4	3	Estimated expected no.	13,614	7,933	656	712
St. Louis, Mo	345	236	30	13		mulative		HIR OLD II	ooks
St. Paul, Minn.	75	54	8	5	including report	d correct	Lions for	previous w	eeks
Wichita, Kans	81	63	15	2	All Causes, All Ages			/6 220	
					All Causes, Age 65 and				

# MEASLES - United States (Continued from page 22)

An increase in case rates over 1966 was noted in 11 states. However, only two states (Oklahoma and Nebraska) showed increases of magnitude to change to a different classification on the maps. In some of these 11 states, the higher rates are due to improved reporting.

Of the 18 states with reported measles cases of 100 or greater per 100,000 population in 1966, three showed case rates greater than 100 in 1967 (North Dakota, Texas, and Washington). In 1966, the case rates ranged from 103.7 to 738.5 for these 18 states. In 1967, the case rates for the four states with a rate greater than 100 per 100,000 population ranged from 122.9 to 184.2.

In 1967, of the 25 states reporting fewer than 25 measles cases per 100,000 population, 16 (64 percent) had rates less than 10; of the 11 states in 1966 with a rate less than 25, five (45 percent) reported fewer cases than 10 per 100,000 population.

(Reported by the State Services Section and the Statistics Section, NCDC.)

# INTERNATIONAL NOTES INFLUENZA - 1967

The World Health Organization has received official reports of influenza activity from the following Asian countries:

Japan: (information dated 7 December) - Since mid-November, outbreaks of influenza-like disease have been reported in several primary and middle schools in Tokyo and Aichi Prefectures. In the Tokyo area, the epidemic has a tendency to spread gradually.

A strain of virus A2 has been isolated from sick children in a school in Tokyo. It is antigenically almost identical with those isolated in Japan during the epidemics of 1965 and early 1967.

Further reports from Japan: (information dated 21 December 1967) - The influenza epidemic which started in Tokyo and Aichi Prefectures seems to be gradually spreading from east to west. Scattered outbreaks, mostly in primary and middle schools, have recently been reported from the western part of Japan, especially from Kyushu District.

Strains of virus A2 have been isolated in Tokyo and Yokohama, and Kyoto Prefecture.

Serological evidence of infection with Virus A2 has been obtained in Aichi, Hyogo and Saitama Prefecture.

Taiwan: Sporadic cases of influenza-like illness were reported in children and adults in late November and early December 1967. Strains preliminarily identified as virus B have been isolated from specimens collected in the Taipei city area.

(Compiled from the Weekly Epidemiological Record, WHO, Vol. 42, No. 50, and Vol. 43, Nos. 1-2.)

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER M.D. CHIEF, EPIDEMIOLOGY PROGRAM A.D. LANGMUIR, M.D. ACTING CHIEF, STATISTICS SECTION IDA L. SHERMAN, M.S. EDITOR MICHAEL B. GREGG, M.S.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALT OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

NATIONAL COMMUNICABLE DISEASE CENTER

ED TO:

NATIONAL COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

